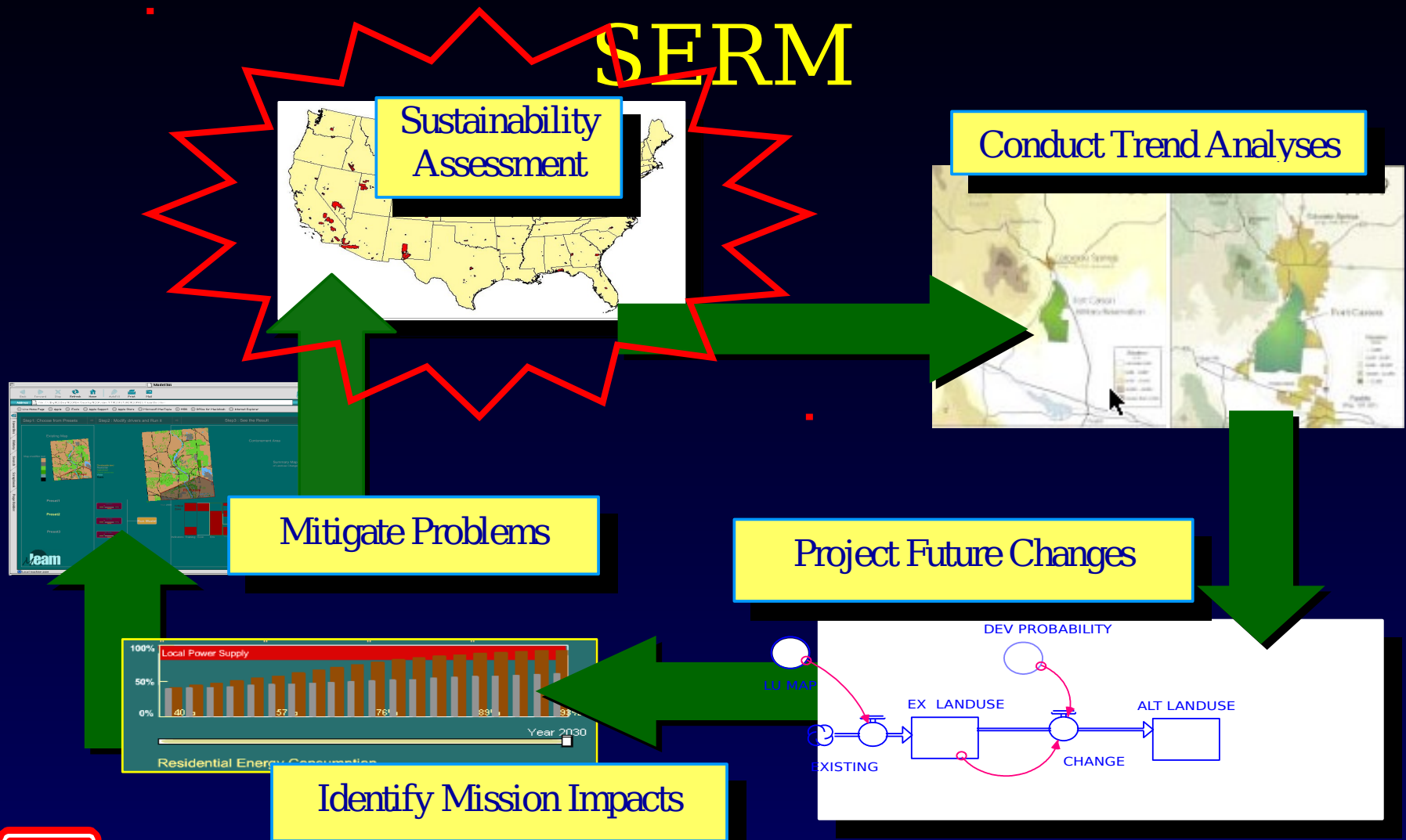


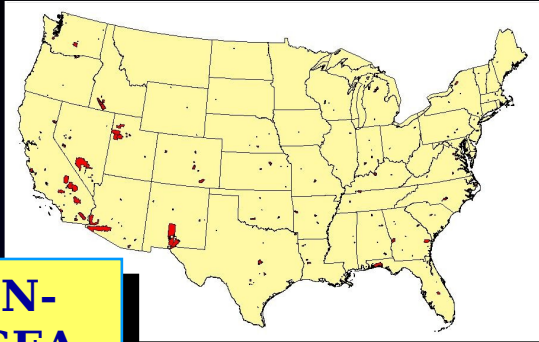
National Sustainability and Encroachment Assessment (N-SEA) ERDC-CERL

15 May 2003



Sustainability & Encroachment Assessment in SERM



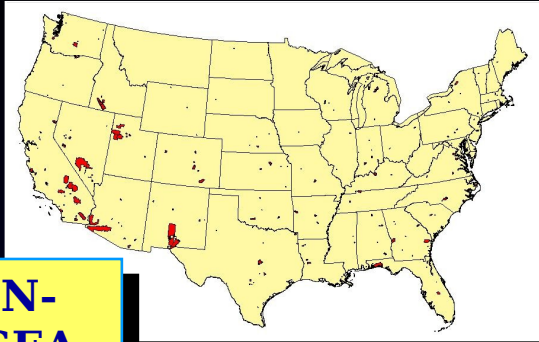


N-
SEA

Problem

- Installations are at risk for maintaining mission, operations, and readiness as a result of a variety of pressures, both external and internal.
- A systematic national sustainability and encroachment assessment will provide an initial evaluation of the likelihood of military activity disruption.
- Understanding the extent and character of the stresses will aid in effective resource allocation and proactive mitigation efforts.





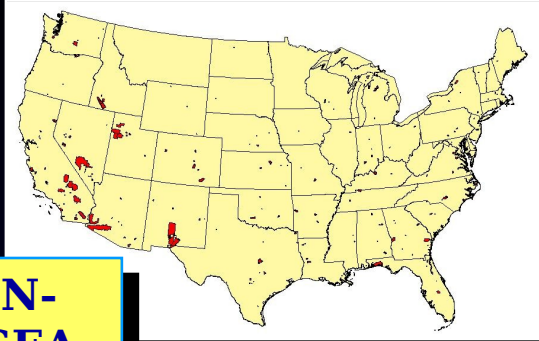
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SEA

Objective

- Develop national level sustainability and encroachment assessment tool and apply it to select CONUS installations.
- Evaluate sensitivity to air, energy, land use, water, socio-economic, and transportation resource sustainability.
- Applications: installation sustainability planning, stationing changes, base closure, realignment issues
- Comparative look across multi installations highlights regionally specific issues, mitigation strategies, and informs community coordination efforts



Approach

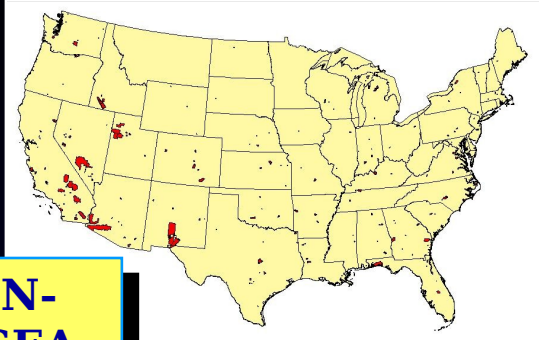


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- Lessons learned from FY02 effort - compltd
- Develop final assessment methodology – compltd
 - Data collection
 - Data analysis
 - Developing sustainability ratings
 - Developing GIS maps of ratings
- Apply to selected CONUS installations – May '03
 - Installation sustainability matrix – in progress
- Develop Documentation – July '03



Approach (contd)

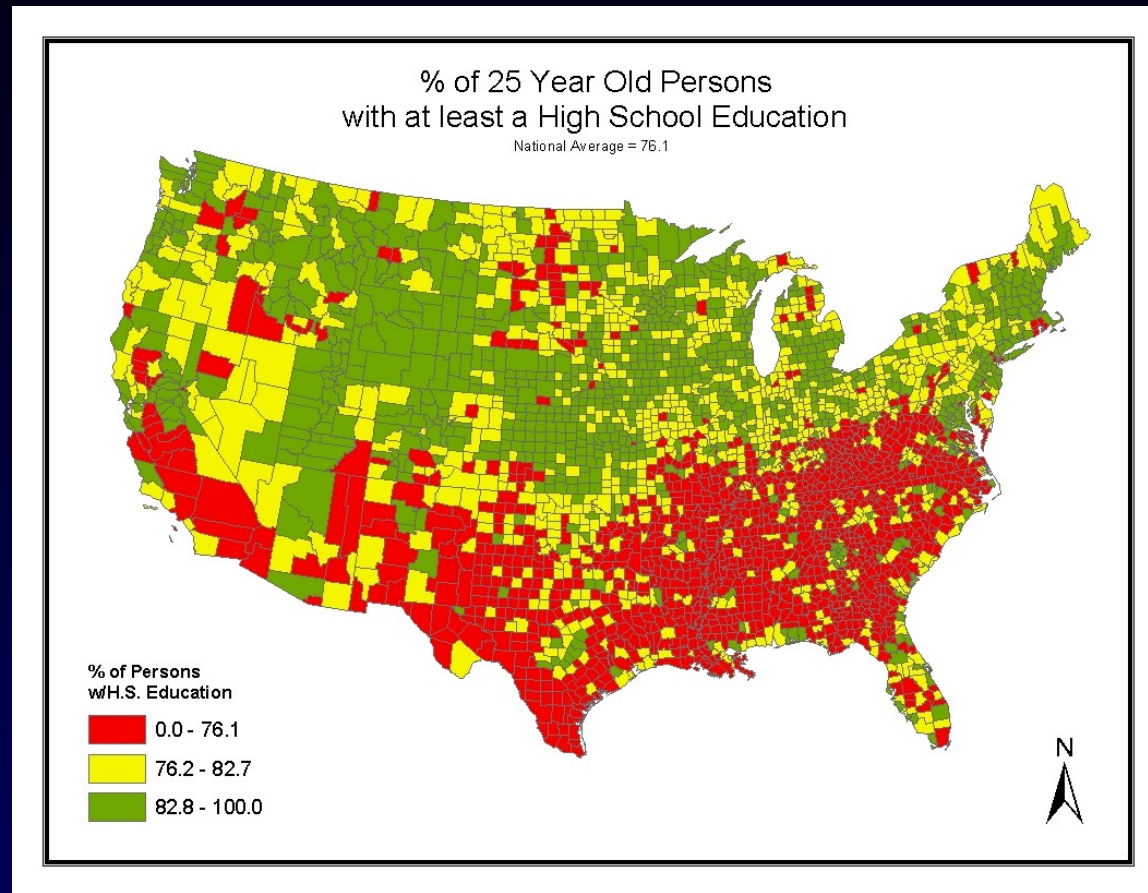


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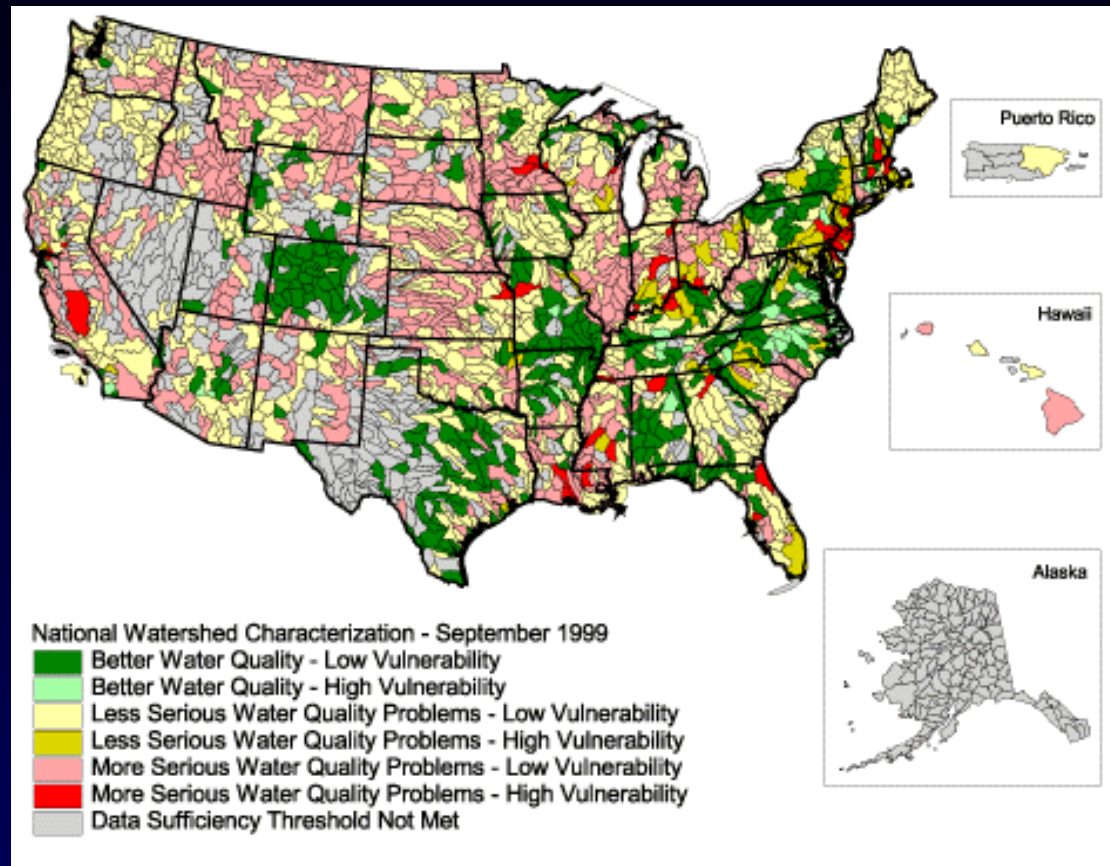
- Develop Web Based User Interface – July '03
 - Create database
 - GIS coverages on line
 - Allow users to select installation/indicator
 - Show users web report
- Expert review methodology – July '03
 - Virtual meeting of OGREs
- Converting S² to km²-days – Steven Siegel
- Prototype approach for regional risk assessment – '04



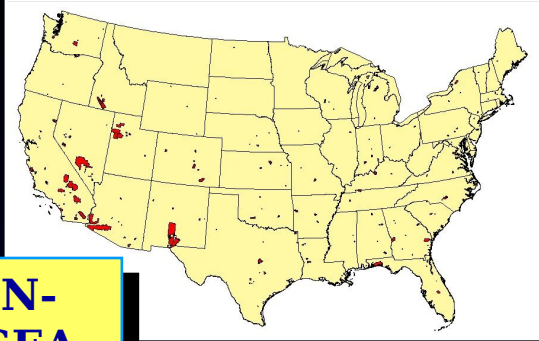
Sample Criteria: Education



Sample Criteria: Water Quality



Technology Transfer Mechanisms



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SEA

- Incorporate exogenous factors in future Army stationing and realignment analysis (CAA)
- Sustainability and encroachment analysis procedure deployed with Fort Future
- Display of data through simplified user interface
- Methodology and application documented in tech reports



Prototype User Interface

